



Practitioner's Docket No. 701586-053651

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: Charles R. Cantor and Chunming Ding

Application No.: 10/759,519

Group No.: 1645

Filed: January 16, 2004

Examiner: To be assigned

For: HAPLOTYPE ANALYSIS

CERTIFICATE OF MAILING

I hereby certify that this correspondence, on the date shown below, is being deposited with the United States Postal Service with sufficient postage as First Class Mail in an envelope addressed to MAIL STOP AMENDMENT, Commissioner of Patents, Box 1450, Alexandria, VA 22313-1450.

Date: April 4, 2005


Debra J. Kellom

MAIL STOP AMENDMENT

Commissioner for Patents

P.O. Box 1450

Alexandria, VA 22313-1450

Sir/Madam:

INFORMATION DISCLOSURE STATEMENT

In accordance with the provisions of 37 C.F.R. §1.56, 1.97, and 1.98, Applicants wish to bring to the Examiner's attention the following references, References A1-A15 and C1-C16 cited in the attached Forms PTO/SB/08a and b.

REMARKS

In accordance with the provisions of 37 C.F.R. §1.97, this statement is being filed:

- X (1) within three (3) months of the Filing Date or **before the mailing date of the First Office Action** on the merits; or
- (2) within three months of the mailing date of the PCT International Search Report; or
- (3) after the period defined in (1) but before the mailing date of a **Final Rejection** or **Notice of Allowance**, and the requisite Certification or fee under Rule 1.17(p), namely \$180.00, is included herein; or

____ (4) after the mailing date of a **Final Rejection** or **Notice of Allowance** but before the payment of the **Issue Fee**, and the requisite Certification, petition, and petition fee are included herein.

____ A copy of the European Search Report is enclosed herewith.

It is respectfully requested that each of the documents shown on the attached form(s) PTO/SB/08a be made of record in this application.

Copies of these documents (CHECK ONE):

 X are enclosed herewith that have not been previously submitted; or

____ have been cited in the parent application, and are thus not being resubmitted herein.

FEE AUTHORIZATION

The Commissioner is authorized to charge fee deficiencies or credit overpayments associated with this submission to the NIXON PEABODY LLP Deposit Account No. 50-0850.

Date: April 1 , 2005

Respectfully submitted,



Ronald I. Eisenstein (Reg. No. 30,628)
Leena H. Karttunen (37 C.F.R. §10.9(b))
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Substitute for form 1449B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>			Complete if Known		
			Application Number	10/759,519	
			Filing Date	January 16, 2004	
			First Named Inventor	Cantor et al.	
			Group Art Unit	1645	
			Examiner Name	To be assigned	
Sheet		of		Attorney Docket Number	701586-053651

OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS				
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²	
	C1	Grupe, A. et al. In silico mapping of complex disease-related traits in mice. <i>Science</i> 292, 1915-8. (2001).		
	C2	Hirschhorn, J.N., Lohmueller, K., Byrne, E. & Hirschhorn, K. A comprehensive review of genetic association studies. <i>Genet Med</i> 4, 45-61. (2002).		
	C3	Zhang, S., Pakstis, A.J., Kidd, K.K. & Zhao, H. Comparisons of two methods for haplotype reconstruction and haplotype frequency estimation from population data. <i>Am J Hum Genet</i> 69, 906-14. (2001).		
	C4	Templeton, A.R., Sing, C.F., Kessling, A. & Humphries, S. A cladistic analysis of phenotype associations with haplotypes inferred from restriction endonuclease mapping. II. The analysis of natural populations. <i>Genetics</i> 120, 1145-54. (1988).		
	C5	Kruglyak, L. Prospects for whole-genome linkage disequilibrium mapping of common disease genes. <i>Nat Genet</i> 22, 139-44. (1999).		
	C6	Judson, R., Stephens, J.C. & Windemuth, A. The predictive power of haplotypes in clinical response. <i>Pharmacogenomics</i> 1, 15-26. (2000).		
	C7	Martin, E.R. et al. Analysis of association at single nucleotide polymorphisms in the APOE region. <i>Genomics</i> 63, 7-12. (2000).		
	C8	Clark, A.G. Inference of haplotypes from PCR-amplified samples of diploid populations. <i>Mol Biol Evol</i> 7, 111-22. (1990).		
	C9	Stephens, M., Smith, N.J. & Donnelly, P. A new statistical method for haplotype reconstruction from population data. <i>Am J Hum Genet</i> 68, 978-89. (2001).		

	C10	Ruano, G. & Kidd, K.K. Direct haplotyping of chromosomal segments from multiple heterozygotes via allele-specific PCR amplification. <i>Nucleic Acids Res</i> 17, 8392. (1989).	
	C11	Ruano, G., Kidd, K.K. & Stephens, J.C. Haplotype of multiple polymorphisms resolved by enzymatic amplification of single DNA molecules. <i>Proc Natl Acad Sci U S A</i> 87, 6296-300. (1990).	
	C12	Douglas, J.A., Boehnke, M., Gillanders, E., Trent, J.M. & Gruber, S.B. Experimentally-derived haplotypes substantially increase the efficiency of linkage disequilibrium studies. <i>Nat Genet</i> 28, 361-4. (2001).	
	C13	Stephens, J.C., Rogers, J. & Ruano, G. Theoretical underpinning of the single-molecule-dilution (SMD) method of direct haplotype resolution. <i>Am J Hum Genet</i> 46, 1149-55. (1990).	
	C14	Daly, M.J., Rioux, J.D., Schaffner, S.F., Hudson, T.J. & Lander, E.S. High-resolution haplotype structure in the human genome. <i>Nat Genet</i> 29, 229-32. (2001).	
	C15	Gabriel, S.B. et al. The structure of haplotype blocks in the human genome. <i>Science</i> 296, 2225-9. (2002).	
	C16	Shields and Harris (2000) <i>J. Clin. Onc.</i> 18:2309-2316.	
	C17	Evans and Relling (1999) <i>Science</i> 286:487-491	
	C18	Collins et al. (1997) <i>Science</i> 278, 1580-81	
	C19	Drysdale et al. (2000) <i>Proc. Natl. Acad. Sci.</i> 97:10483-8; Krynetski and Evans (1998) <i>Am. J. Hum. Gen.</i> 63:11-16).	
	C 20	Orita et al. (1989) <i>Proc. Natl. Acad. Sci. USA</i> 86:2766-2770	
	C21	Prior et al. (1995) <i>Hum. Mutat.</i> 5:263-268	
	C22	Nickerson et al. (1990) <i>Proc. Natl. Acad. Sci. USA</i> 87:8923-892	

	C23	Conner et al. (1983) Proc. Natl. Acad. Sci. USA 80:278-282	
	C24	Ruano et al. (1990) Proc. Natl. Acad. Sci. USA 87:6296-6300	
	C25	Michalatos-Beloin et al. (1996) Nucleic Acids Res. 24:4841-4843	
	C26	Ruano and Kidd (1991) Nucleic Acids Res. 19:6877-6882	
	C27	Cheng, et al. (1994) Proc. Natl. Acad. Sci. USA 91:5695-5699	
	C28	Papadopoulos et al. (1995) Nature Genet. 11:99-102	
	C29	Woolley et al. (2000) Nature Biotech. 18:760-763	

Examiner Signature		Date Considered	
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* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached.